

BBright Decoder

The BBright Decoder is a high-performance, multi-channel contribution and monitoring decoder designed for professional broadcast applications. Supporting a wide range of codecs and I/O formats, it serves as the ultimate decoder for handling modern IP-based workflows with maximum flexibility and reliability.

With support for HEVC (up to 160 Mbps), JPEG 2000 (up to 400 Mbps), H.264, and MPEG-2, the BBright Decoder processes transport stream inputs via TS over IP or SRT and delivers video, audio, and metadata outputs over SMPTE ST 2110, SDI, or HDMI 2.0b (Dolby Vision), ensuring seamless integration into any broadcast environment.

This software-based decoder features advanced monitoring information, BISS CA support and log engine, making it ideal for live sports contribution as well as 24/7 broadcast monitoring applications. It supports multiple HD and high-bitrate HEVC & AVC streams, along with Dolby™ DD, DD+, ATMOS, E, ED2, and AC-4 audio streams, providing a comprehensive solution for high-quality decoding.

Built for flawless interoperability, the BBright Decoder ensures seamless integration with any contribution source, delivering exceptional reliability and confidence in professional broadcasting workflows.

KEY FEATURES

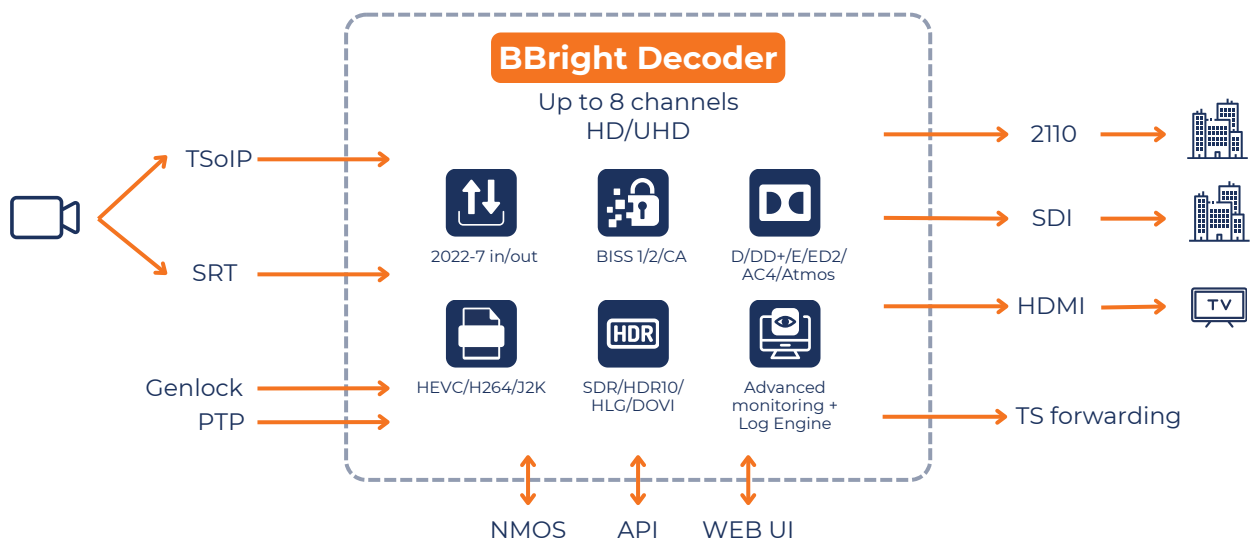
- Up to 8 channels per TRU
- Dolby Atmos/AC4/Vision
- Biss-CA
- 2110 & NMOS compliant

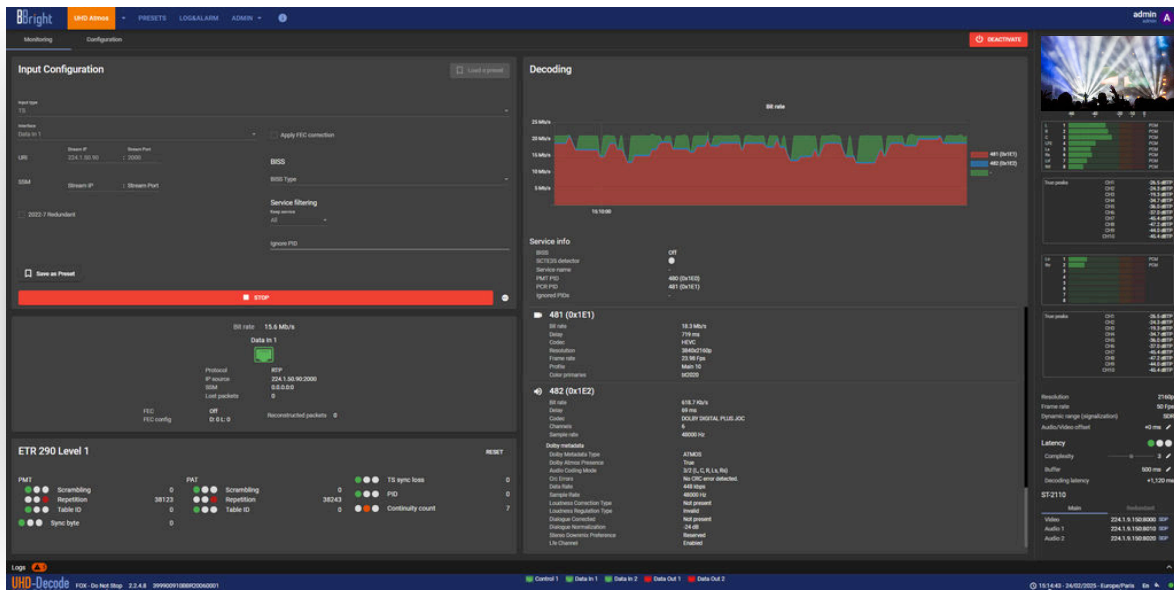
ADDED VALUE

- Monitoring
- High density
- Rest API
- Interoperable

USE CASES

- High end contribution (HDR & NGA)
- High density edge device for cloud contribution





Video

- Multi-Codec support: HEVC / H264 / MPEG2 / JPEG2000
- HEVC/H264/MPEG2 up to 160 Mbps
- JPEG2000 Up to 400 Mbps (VSF-TR01)
- 4:2:0 / 4:2:2, Up to 10bits
- Up to 8 HD channels(multi codecs)
- 25 / 29,97 / 50 / 59.94 / 60 fps

HDR

- HLG / HDR10
- Dolby Vision

Inputs

- Multicast or Unicast TS over IP on dual Gb Ethernet ports
- 8x DVB-ASI inputs (HD-BNC)
- SPTS or MPTS (PID Filtering)
- Input scan
- ETR 101-290 level1 input error monitoring
- FEC/SMPTE 2022-1/SMPTE 2022-7
- SRT support
- BISS Decryption (Up to BISS-CA)

Control

- Intuitive Web UI
- Rest API
- Presets
- NMOS

Audio

- Up to 16 Audio Channels
- AAC-LC/HE-AAC v1/v2 /MPEG1/2 LayerII decoding
- Dolby DD / DD+ / DD+JOC / E / ED2 / AC4 passthrough
- Dolby DD / DD+ / DD+JOC / E / ED2 / AC4 decoding
- Audio shuffling

Metadata

- CC 608 / 708 passthrough or burnt into video
- DVB subtitles & teletext passthrough or burnt into video
- ST-12M Time Code, ST-352, ST-2108

Outputs

- Up to 8x HD Channels (1080p) / 2x UHD (8x HD-BNC)
- UHD over Quad 3G-SDI / 12G-SDI / SMPTE 2110 / HDMI 2.0b
- Genlock (SDI) & PTP Support (2110)

Chassis

- 1 RU Chassis
- 437 mm x 610 mm x 43 mm
- Redundant power supplies (hot swappable)